IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) :

KATO, et al.

Serial No.

To be assigned

Filed

.

Herewith

For

ENCODING APPARATUS AND METHOD,

RECORDING MEDIUM AND PROGRAM

745 Fifth Avenue New York, NY 10151

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Date of Deposit

December 19, 2001

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Assistant Commissioner for Patents

Box PCT

Washington, D.C. 20231

REQUEST FOR DRAWING CORRECTIONS

Sir:

Please correct the drawings by replacing original drawing Figs. 78-97 with the attached new Figs. 78-97, respectively.

When the above-identified international application was filed, the drawing figures that were submitted inadvertently included incorrect Figs. 78-97. That the original drawing

10/018856 PATENT 450101-03301

figures submitted with the international application were incorrect is readily apparent simply from reading the Brief Description of the Drawings set out in the specification. To correct this inadvertent error, new (correct) Figs. 78-97 are submitted herewith; and the entry of these new drawing figures to replace original Figs. 78-97 is respectfully requested. No new matter is presented. By the present Request, the actual drawing figures now are consistent with and conform to the written description of the drawing figures, as set out in the specification.

Respectfully submitted,

FROMMER LAWRENCE & HAUG LLP

Bv:

William S. Fromme

Reg. No. 25,506

(212) 588-0800

2 00042365

SYNTAX	NUMBER OF BYTES	ABBREVIATION
menu.thmb/mark.thmb {		
reserved	256	bslbf
Thumbnail()		
for (i=0; i <n1; i++)<="" td=""><td></td><td></td></n1;>		
padding_word	16	bslbf
}]

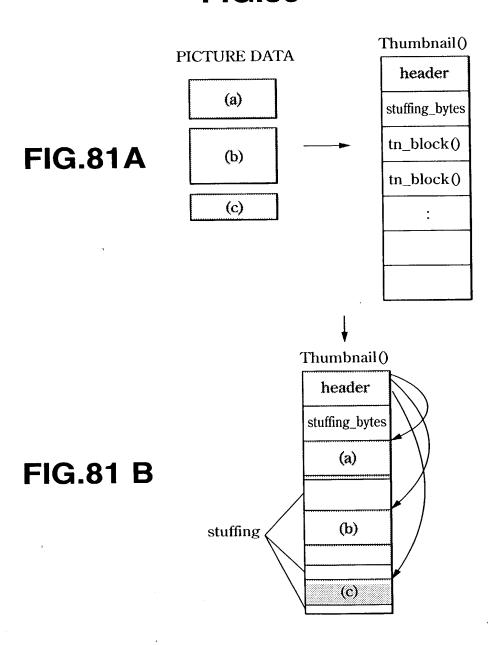
	NUMBER	ADDDDITATION
SYNTAX	OF BYTES	ABBREVIATION
Thumbnail(){		
version_number	8*4	char
length	32	uimsbf
if (length !=0) {		
tn_blocks_start_address	32	bslbf
number_of_thumbnails	16	uimsbf
tn_block_size	16	uimsbf
number_of_tn_blocks	16	uimsbf
reserved	16	bslbf
for (i=0; i <number_of_thumbnails; i++){<="" td=""><td></td><td></td></number_of_thumbnails;>		
thumbnail_index	16	uimsbf
thumbnail_picture_format	8	bslbf
reserved	8	bslbf
picture_data_size	32	uimsbf
start_tn_block_number	16	uimsbf
x_picture_length	16	uimsbf
y_picture_length	16	uimsbf
reserved	16	uimsbf
}		
stuffing_bytes	8*2*L1	bslbf
for(k=0; k <number_of_tn_blocks; k++){<="" td=""><td></td><td></td></number_of_tn_blocks;>		
tn_block	tn_block_	
	size*1024*8	3
}		
)		
}		

FIG.79

73/101

Thumbnail_picture_format	MEANING
0x00	MPEG-2 Video l-picture
0x01	DCF (restricted JPEG)
0x02	PNG
0x03-0xff	reserved

FIG.80



74/101

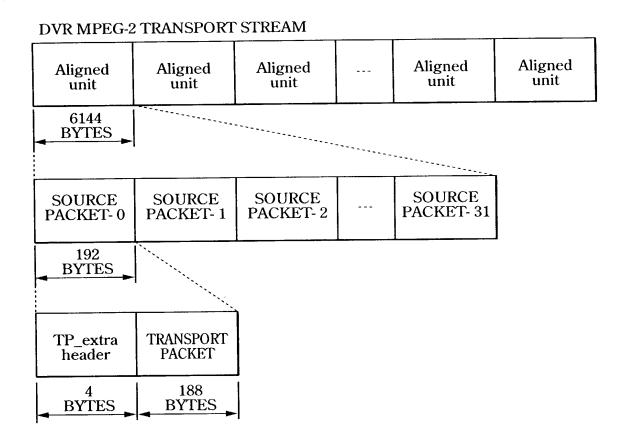


FIG.82



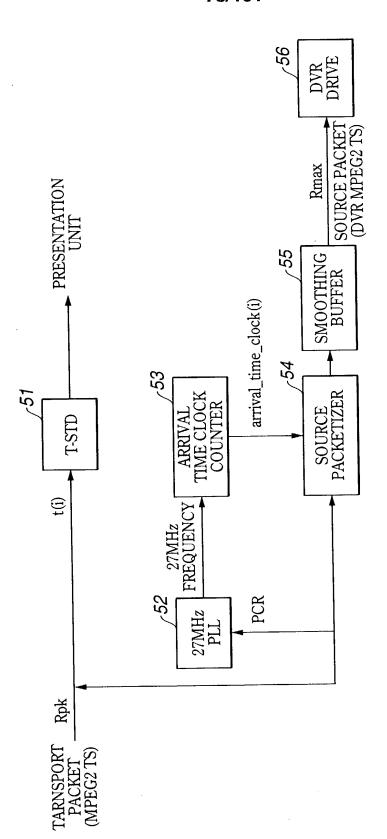


FIG.83

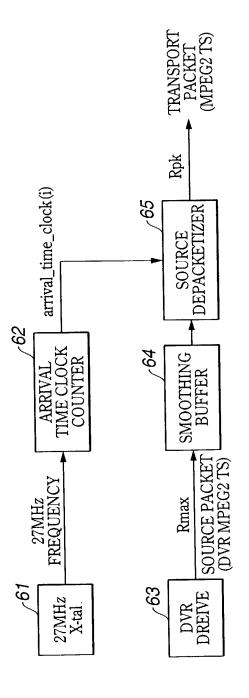


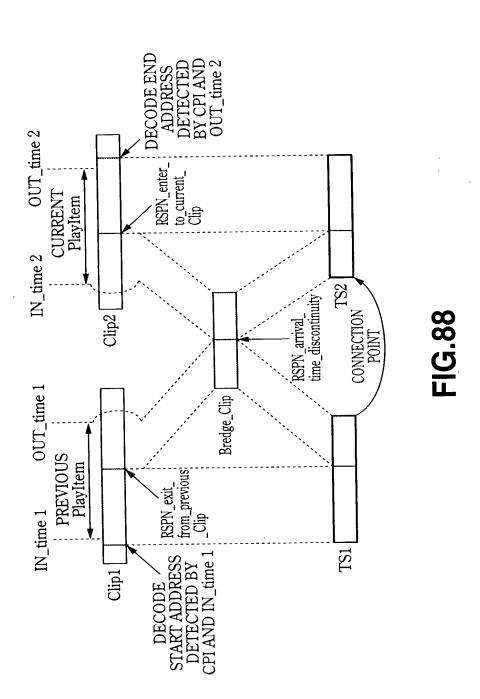
FIG.84

SYNTAX	NUMBER OF BYTES	ABBREVIATION
source_packet() {		
TP_extra_header()		
transport_packet()		

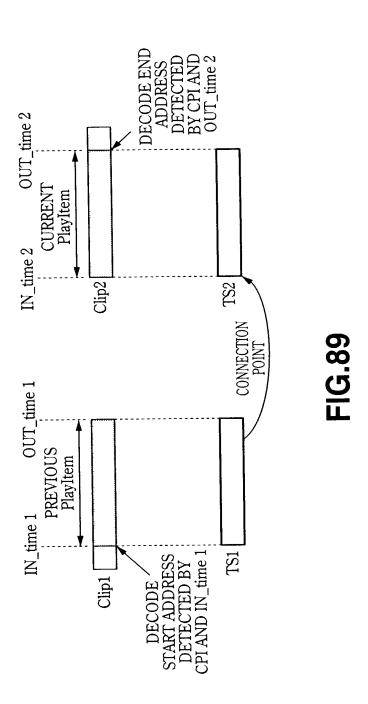
SYNTAX	NUMBER OF BYTES	ABBREVIATION
TP_extra_header() {		
copy_permission_indicator	2	uimsbf
arrival_time_stamp	30	uimsbf
}		<u> </u>

copy_permission _indicator	MEANING
00	copy free
01	no more copy
10	copy once
11	copy prohibited

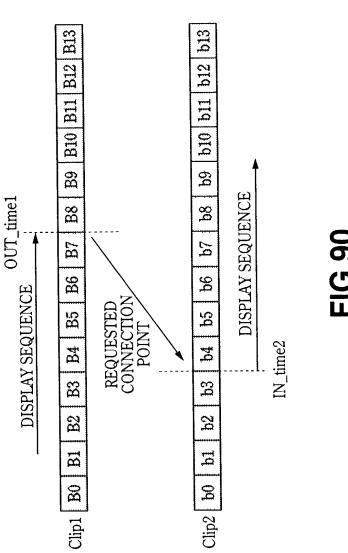
80/101



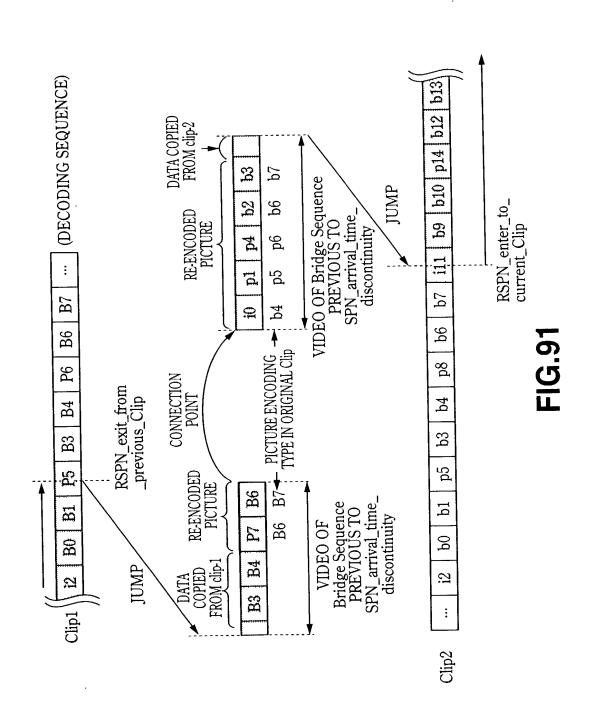
81/101



82/101



83/101



84/101

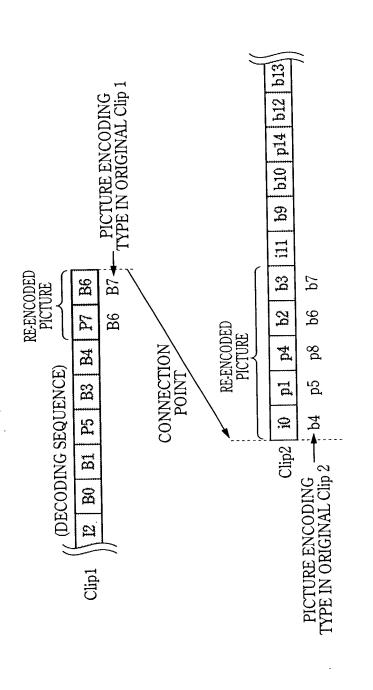
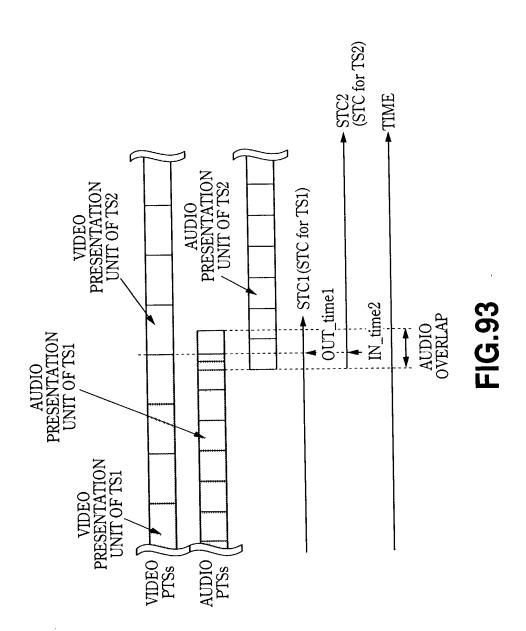


FIG.92

85/101



86/101

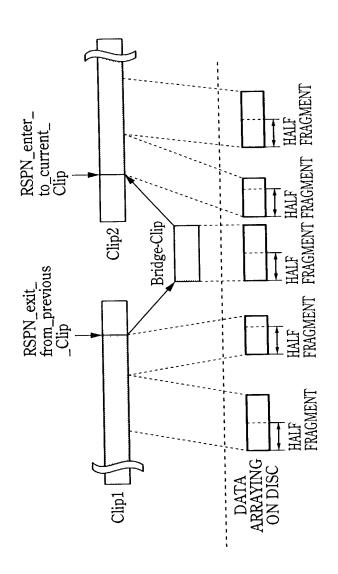


FIG.94

87/101

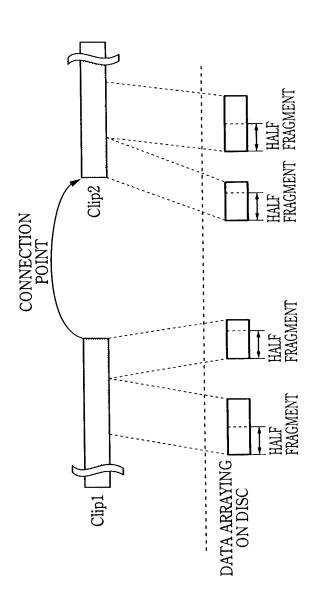


FIG.95

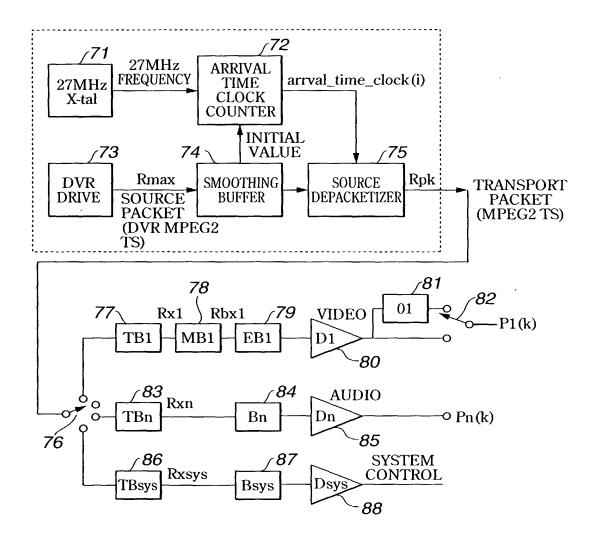


FIG.96

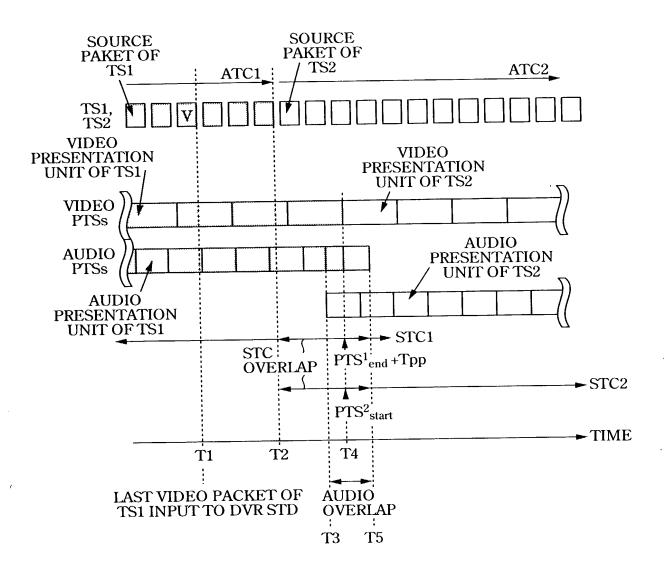


FIG.97

10012255 PA 018836

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: To be assigned

Filed.: Filed Concurrently Herewith

Title of Invention: ENCODING APPARATUS AND METHOD, RECORDING MEDIUM AND PROGRAM

KATO, et al.

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(Signature of person mailing paper or fee)

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents

Box PCT

Applicant:

Washington, D.C. 20231

Sir:

Before the issuance of the first Office Action, please amend the above-identified application as follows:

IN THE DRAWINGS:

Please replace drawing Figures 78-97 with the new drawing Figures 78-97, as submitted in the enclosed Request for Approval of Drawing Changes.

IN THE CLAIMS:

Claims 3, 4 and 6 have been amended as follows:

- 3. (Amended) The encoding apparatus according to claim 14 wherein said controller verifies whether or not the suffing bytes will be encoded depending on the amount of data generated in encoding respective pictures.
- 4. (Amended) The encoding apparatus according to claim 14 wherein said controller manages control of encoding the stuffing bytes so that no overflow will be produced in the VBV buffer.
- 6. (Amended) The encoding apparatus according to claim 15 wherein said controller generates additional information indicating whether or not the encoding mode is such encoding mode in which the amount of said picture coding data is substantially proportionate to the lapse of time.

Also, please cancel claims 1, 2, 5, 7, 8, 9, 10, 11 and 12 and add the following new claims 13-20:

13. An encoding apparatus for encoding picture data, comprising: an encoder for encoding said picture data at a variable rate; and

a controller having an encoding mode in which the volume of encoded data is substantially proportionate to the elapsed time and another encoding mode in which it is not guaranteed that the volume of encoded picture data is proportionate to the elapsed time, said controller controlling the volume of encoded picture data depending on the pertinent encoding mode.

- 14. The encoding apparatus according to claim 13 wherein said controller manages control so that stuffing bytes will be encoded if the amount of said picture coding data generated per unit time is less than a preset value.
- 15. The encoding apparatus according to claim 13 wherein said controller manages control to perform encoding in an encoding mode in which the amount of said



picture coding data generated is substantially proportionate to the lapse of time within a preset error range.

An encoding method for encoding picture data, comprising:

16.

17.

encoding mode.

- an encoding step of encoding said picture data at a variable rate; and a controlling step having an encoding mode in which the volume of encoded data is substantially proportionate to the elapsed time and another encoding mode in which it is not guaranteed that the volume of encoded picture data is proportionate to the elapsed time, said controlling step controlling the volume of encoded picture data depending on the pertinent encoding mode.
- used for controlling an encoding apparatus encoding picture data; said program comprising:

 an encoding step of encoding said picture data at a variable rate; and

 a controlling step having an encoding mode in which the volume of encoded data is
 substantially proportionate to the elapsed time and another encoding mode in which it is not
 guaranteed that the volume of encoded picture data is proportionate to the elapsed time, said
 controlling step controlling the volume of encoded picture data depending on the pertinent
 encoding mode.

A recording medium having recorded thereon a computer-readable program

18. A program for causing a computer controlling an encoding apparatus encoding picture data to execute

an encoding step of encoding said picture data at a variable rate; and
a controlling step having an encoding mode in which the volume of encoded data is
substantially proportionate to the elapsed time and another encoding mode in which it is not
guaranteed that the volume of encoded picture data is proportionate to the elapsed time, said
controlling step controlling the volume of encoded picture data depending on the pertinent

19. A recording medium having picture data recorded thereon, said recording medium having recorded thereon an AV stream file including said picture data and audio data associated with said picture data; and

a flag indicating whether or not encoding has been made in an encoding mode in which the file size of said AV stream is substantially proportionate to the lapse of time.

20. The recording medium according to claim 19 wherein said flag is time controlled flag.

REMARKS

This International Application PCT/JP01/03412 inadvertently was filed with incorrect drawing Figures 78-97. It will be appreciated from reading the Brief Description of the Drawings in the specification, that the originally filed Figures 78-97 do not relate to the instant application. New, correct Figures 78-97 are submitted herewith to correct this inadvertent error.

Claims 1, 2, 5, 7, 8, 9, 10, 11 and 12 have been cancelled, claims 13-20 have been added and claims 3, 4 and 6 have been amended to reflect the amendments to the claims made under PCT Article 19. The filing fee has been calculated based upon these new claims.

Attached hereto is a marked-up version of the changes made to the claims by the current Preliminary Amendment. The attached pages are captioned "Version with markings to show changes made".

Respectfully submitted,

FROMMER LAWRENCE & HAUG LLP

Attorneys for Applicant

William S. Fromme

Tel. (212) 588-0800

10/018836 PATENT 450101-03301

"Version with markings to show changes made"

- 3. The encoding apparatus according to claim 2 14 wherein said controller verifies whether or not the suffing bytes will be encoded depending on the amount of data generated in encoding respective pictures.
- 4. The encoding apparatus according to claim 2 14 wherein said controller manages control of encoding the stuffing bytes so that no overflow will be produced in the VBV buffer.
- 6. The encoding apparatus according to claim 5 15 wherein said controller generates additional information indicating whether or not the encoding mode is such encoding mode in which the amount of said picture coding data is substantially proportionate to the lapse of time.

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